

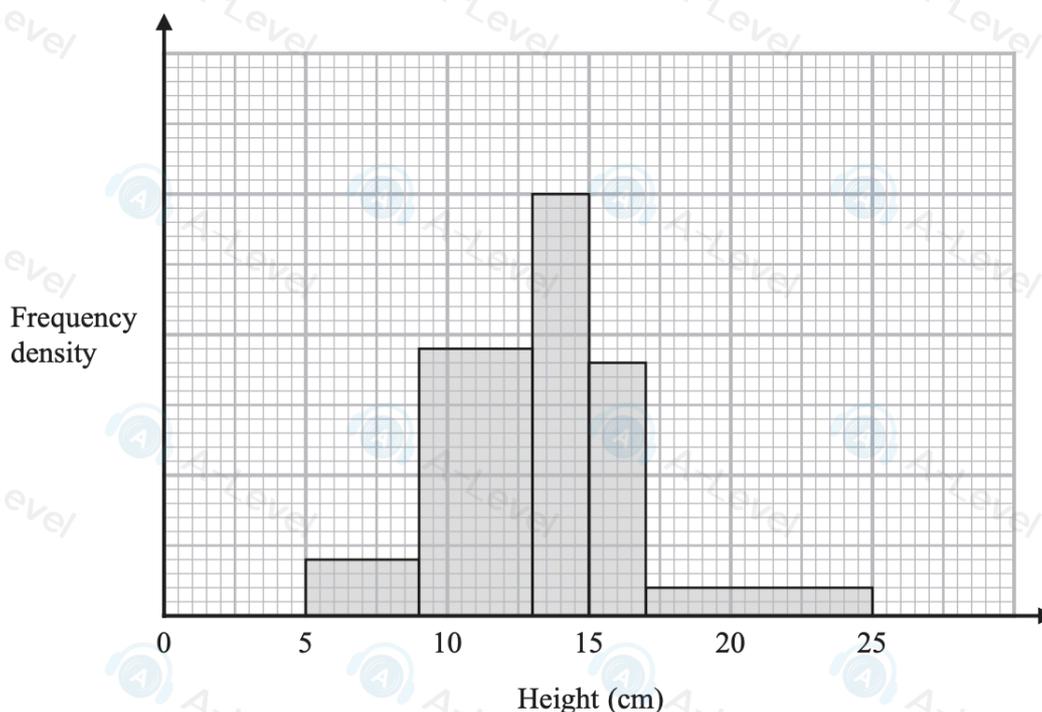
2. The time taken to complete a puzzle, in minutes, is recorded for each person in a club. The times are summarised in a grouped frequency distribution and represented by a histogram.

One of the class intervals has a frequency of 20 and is shown by a bar of width 1.5 cm and height 12 cm on the histogram. The total area under the histogram is 94.5 cm^2

Find the number of people in the club.

(3)

1. The histogram below shows the distribution of the heights, to the nearest cm, of 408 plants.



- (a) Use the histogram to complete the following table.

Height (h cm)	$5 \leq h < 9$	$9 \leq h < 13$	$13 \leq h < 15$	$15 \leq h < 17$	$17 \leq h < 25$
Frequency	32	152	120		

(2)

- (b) Use interpolation to estimate the median.

(2)

The mean height of these plants is 13.2 cm correct to one decimal place.

- (c) Describe the skew of these data. Give a reason for your answer.

(1)

Two of these plants are chosen at random.

- (d) Estimate the probability that both of their heights are between 8 cm and 14 cm

(3)

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